

# Notice of Allowability

Application No.

09/783,286

Examiner

Mike Qi

Applicant(s)

BASTURK, NACI

Art Unit

2871

## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment of Dec.23, 2004.
2. ☒ The allowed claim(s) is/are 1,2,8,10-14,18 and 29-31.
3. ☐ The drawings filed on \_\_\_\_\_ are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☒ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☒ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☒ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

## DETAILED ACTION

### *Allowable Subject Matter*

1. Claims 1-2,8,10-14,18,29-31 are allowed.
2. The following is an examiner's statement of reasons for allowance:

The prior art of record neither discloses nor teaches a display assembly comprising various elements as claimed, more specifically, as the following:

the back polariser is crossed with the front polariser as shown in Fig.6 or Fig.8, the display cell and the optical valve both have positive anisotropy or both have negative anisotropy, wherein the switching states would be: the display cell is switched OFF and the optical valve is switched OFF, and the first display device is hidden by a mirror mask (as shown in Fig.6A) or by a black mask (as shown in Fig.8A); the display cell is switched ON and the optical valve is switched OFF so a portion of the first display device is seen through a transparent widow and the display cell shows data in the dark shade on a light background (as shown in Fig.6B) or a portion of the first display device is seen through a transparent widow and the display cell shows data in the light shade on a dark background (as shown in Fig.8B); the display cell is switched OFF and the optical valve is switched ON so that only the first display device is seen (as shown in Fig.6C or in Fig.8C); the display cell is switched ON and the optical valve is switched ON so the first display device is seen and the display cell shows data in a light color on a dark background (as shown in Fig.6D) or the first display device is seen and the display cell shows data in a dark color on a light background (as shown in Fig.8D) [claims 1 and 13, as shown in Figs 6A-6D; 8A-8D);

the back polariser is parallel to the front polariser as shown in Fig.7 or Fig.9, the display cell and the optical valve both have positive anisotropy or both have negative anisotropy, wherein the switching states would be: the display cell is switched OFF and the optical valve is switched OFF so that only the first display device is seen (as shown in Fig.7A or in Fig.9A); the display cell is switched ON and the optical valve is switched OFF so a portion of the first display device is seen through a transparent widow and the display cell shows data in the light shade on a dark background (as shown in Fig.7B) or a portion of the first display device is seen through a transparent widow and the display cell shows data in the dark shade on a light background (as shown in Fig.9B); the display cell is switched OFF and the optical valve is switched ON, and the first display device is hidden by a mirror mask (as shown in Fig.7C) or by a black mask (as shown in Fig.9C); the display cell is switched ON and the optical valve is switched ON so a portion of the first display device is seen through a transparent widow and the display cell shows data in the dark shade on a light background (as shown in Fig.7D) or a portion of the first display device is seen through a transparent widow and the display cell shows data in the light shade on a dark background (as shown in Fig.9D) [claims 29 and 30, as shown in Figs 7A-7D; 9A-9D];

the back polariser is crossed with the front polariser as shown in Fig.10, the display cell has negative anisotropy and the optical valve has positive anisotropy, wherein the switching states would be: the display cell is switched OFF and the optical valve is switched OFF so that only the first display device is seen (as shown in Fig.10A); the display cell is switched ON and the optical valve is switched OFF so the first display

is seen and the display cell shows data in a light color on a dark background (as shown in Fig.10B); the display cell is switched OFF and the optical valve is switched ON, and the first display device is hidden by a mirror mask (as shown in Fig.10C); the display cell is switched ON and the optical valve is switched ON so a portion of the first display device is seen through a transparent widow and the display cell shows data in the dark shade on a light background (as shown in Fig.10D) [claim 31, as shown in Figs.10A-10D].

The closest reference AAPA, Wang and Masafumi disclose a double structure of a liquid crystal display having only two polarisers and share a substrate to display time information and data information, but the references do not disclose to control the contrast inversion display to have different switching states as claimed in the claims 22-26 and as shown in the Figs. 6-10.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mike Qi whose telephone number is (571) 272-2299. The examiner can normally be reached on M-T 8:00 am-5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on (571) 272-2293. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mike Qi  
January 11, 2005



TARIFUR R. CHOWDHURY  
PRIMARY EXAMINER